FIG.1

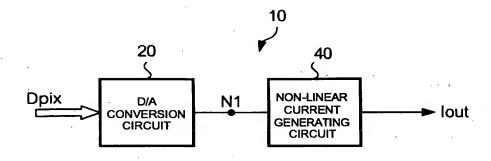


FIG.2

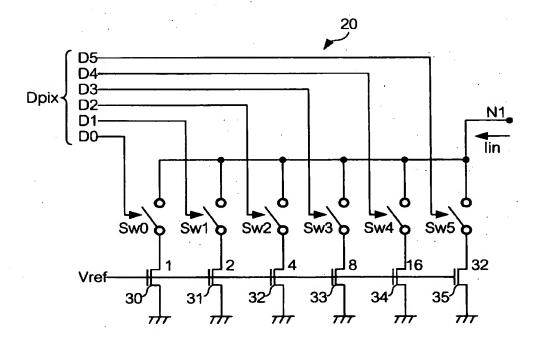


FIG.3

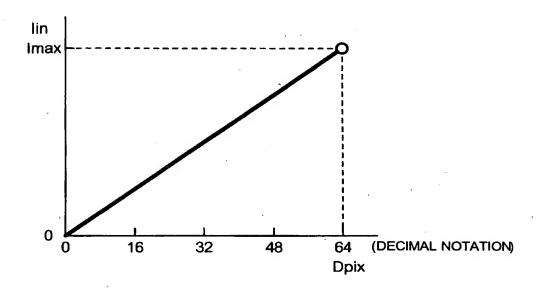


FIG.4

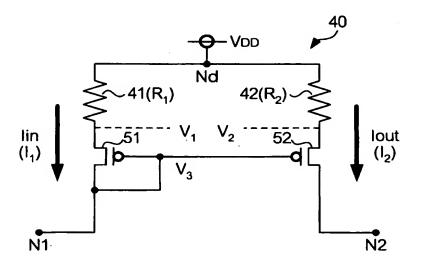


FIG.5

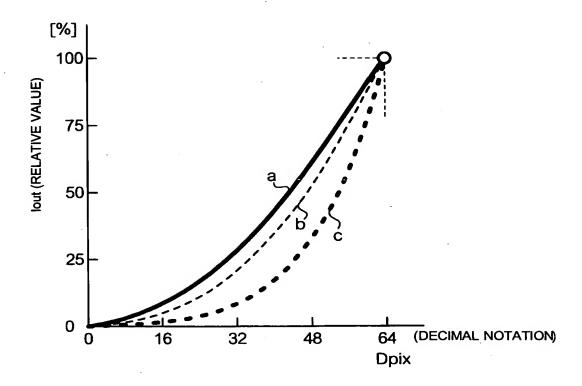


FIG.6

$$\sqrt{\frac{2I_1}{\beta_I}} = V_2 - I_1 \bullet R_1 + I_2 \bullet R_2 - V_3 - V_{th}$$

$$\therefore I_1 \bullet R_1 - I_2 \bullet R_2 + \sqrt{\frac{2I_1}{\beta_1}} = V_2 - V_3 - V_{th} \cdot \dots \cdot (7)$$

$$I_{2} = \frac{1}{2}\beta_{2} \left(I_{1} \circ R_{1} - I_{2} \circ R_{2} + \sqrt{\frac{2I_{1}}{\beta_{1}}} \right)^{2}$$

$$\therefore \frac{2I_{2}}{\beta_{2}} = (I_{1} \circ R_{1} - I_{2} \circ R_{2})^{2} + 2(I_{1} \circ R_{1} - I_{2} \circ R_{2}) \sqrt{\frac{2I_{1}}{\beta_{1}}} + \frac{2I_{1}}{\beta_{1}}$$

$$= I_{1}^{2} \circ R_{1}^{2} - 2I_{1} \circ R_{1} \circ I_{2} \circ R_{2} + I_{2}^{2} \circ R_{2}^{2} + 2I_{1} \circ R_{1} \sqrt{\frac{2I_{1}}{\beta_{1}}} - 2I_{2} \circ R_{2} \sqrt{\frac{2I_{1}}{\beta_{1}}} + \frac{2I_{1}}{\beta_{1}}$$

$$\therefore R_{2}^{2} \circ I_{2}^{2} - 2 \left(\frac{I}{\beta_{2}} + I_{1} \circ R_{1} \circ R_{2} + R_{2} \sqrt{\frac{2I_{1}}{\beta_{1}}} \right) I_{2} + \left(\sqrt{\frac{2I_{1}}{\beta_{1}}} + I_{1} \circ R_{1} \right)^{2} = 0 \cdot \dots (8)$$

$$I_{2} = \frac{\frac{1}{\beta_{2}} + I_{I} \cdot R_{I} \cdot R_{2} + R_{2} \sqrt{\frac{2I_{I}}{\beta_{I}}} + \sqrt{\left(\frac{1}{\beta_{2}} + I_{I} \cdot R_{I} \cdot R_{2} + R_{2} \sqrt{\frac{2I_{I}}{\beta_{I}}}\right)^{2} - R_{2}^{2} \left(\sqrt{\frac{2I_{I}}{\beta_{I}}} + I_{I} \cdot R_{I}\right)^{2}}{R_{2}^{2}} \dots(9)$$

FIG.9

$$I_2 = \frac{1}{2}\beta_2 \left(\sqrt{\frac{2I_I}{\beta_I}} + I_I \bullet R_I \right)^2 \cdots (10)$$

FIG.10

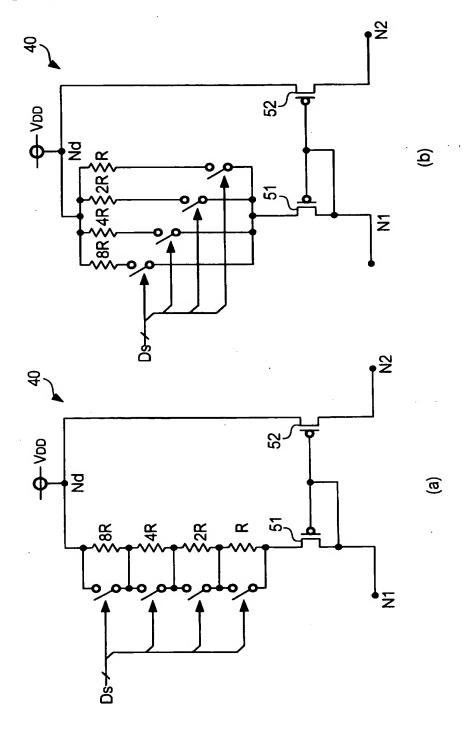


FIG.11

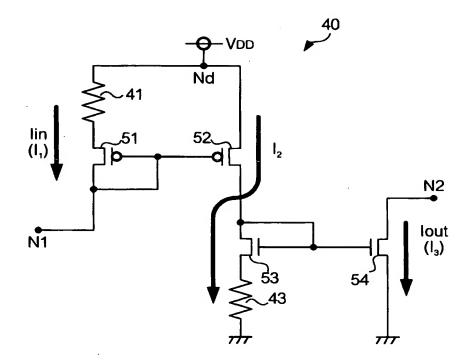


FIG.12

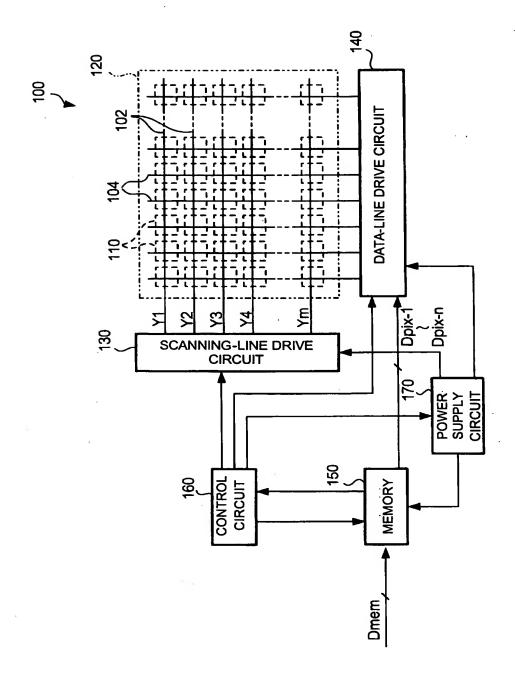


FIG.13

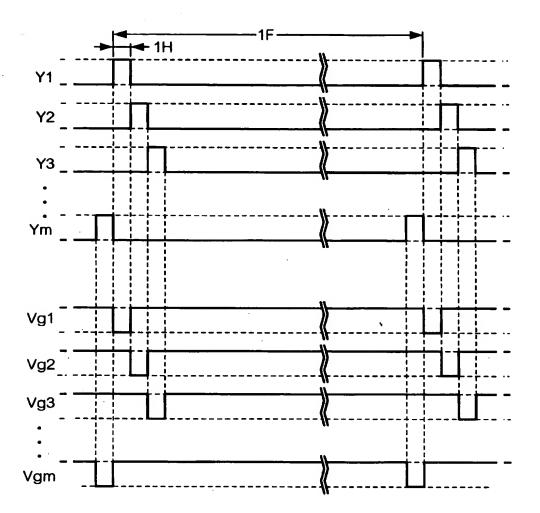


FIG.14

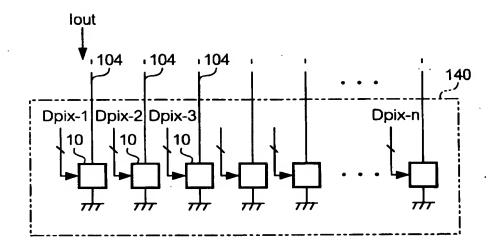


FIG.15

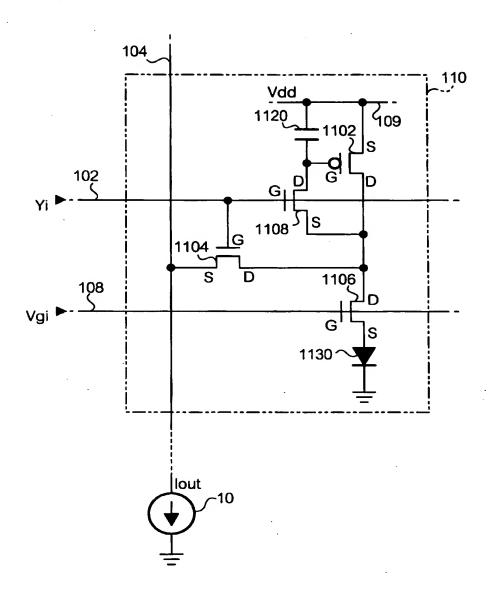


FIG.16

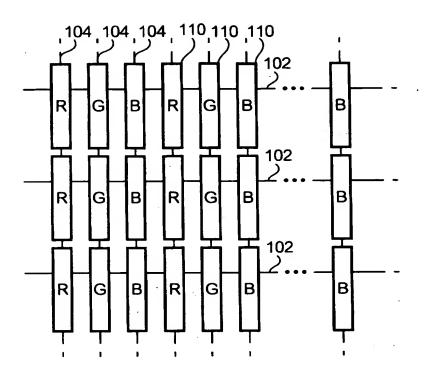


FIG.17

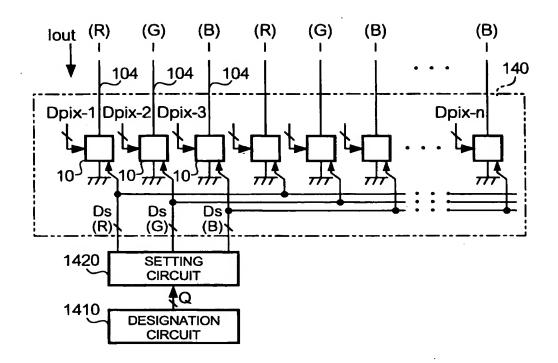


FIG.18

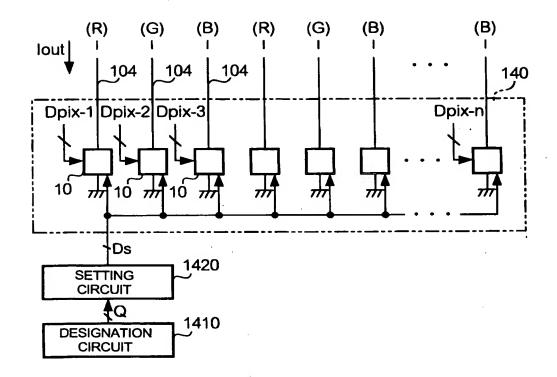


FIG.19

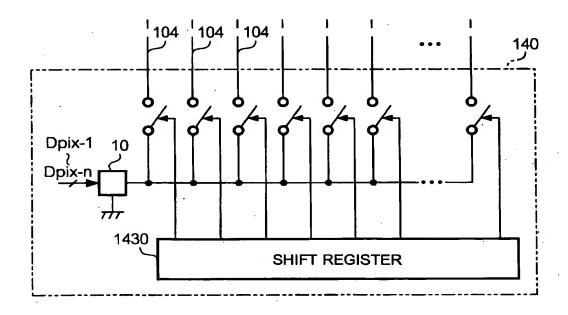


FIG.20

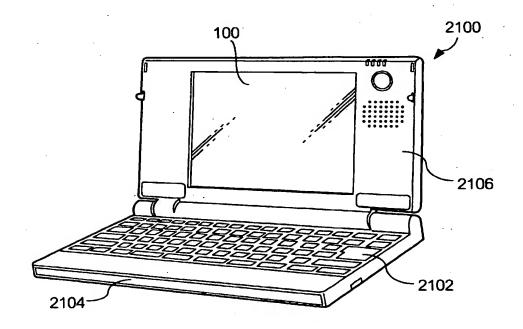


FIG.21

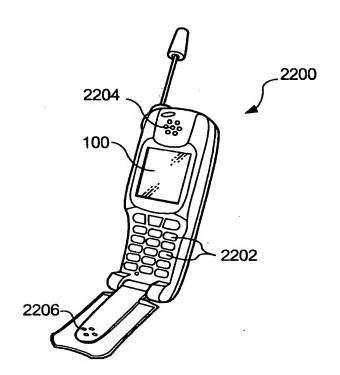


FIG.22

